CLASSIFICATION CCONFTIDENTIL REPORT CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT CD NO. DATE DISTR. COUNTRY East Germany 18 May 1955 SUBJECT Main Administration for Radio and NO. OF PAGES Telecommunications Organization and Personnel NO. OF ENCLS. PLACE (LISTED BELOW) **ACQUIRED** SUPPLEMENT TO DATE OF 25X1 REPORT NO. INFO. 25X1

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THIS IS UNEVALUATED INFORMATION

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- 1. In October 1954, the Main Administration for Radio and Telecommunication Techniques (IV R-F-T) had a work force of 128 persons including 44 women.
- 2. Of the 64 million eastmarks requested for development projects in 1954, only 60 million eastmarks were approved. These funds included 10 million eastmarks for so-called commercial developments which actually involved military equipment. Of the 42 million eastmarks allocated for development projects, about 70 percent were to cover the expenses for consumer goods, while the remaining 30 percent were primarily used for television transmitters, railroad sagnals and safety installations and for compenent parts.
- 9. If the 140 development projects hamiled by the EV, only 10 could be completed by Scholar 1954. These included among other projects which were not resembled:

rimistare variable condensers
top superhet type 11-circuit receivers
type-Libelle portable receivers with 9 circuits
field telephone
hearing aids
WIT accessories
ten television transmitters.

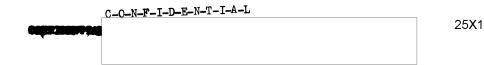
The hearing aid, the top superhet type receiver and the field telephone were being produced by October 1954. No complete information could be obtained on the activities of the individual sections of the Department for Research and Development.²

4. The chief mechanic was in charge of organizational work. He received the code numbers and short designations of the development projects for civilian requirements from the technical administration and either turned them over to Grosse (fnu) of Section 19, planning and development, or discussed their coordination with other projects which

were already being worked on and observed the prefit margine

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after being processed by Referat 19, the research orders were turned over to the sections in charge and example carried out. The chief mechanic was only asked to informediate in a least two occurred with the assignment of the orders and with the procurement of the orders and with the procurement of the orders.

5. Concerning development orders for military equipment, the chief mechanic was informed only of the code numbers and cover designations. These projects were exclusively handled by the following persons who had been selected by the Ministry of Lachine Construction:

Ing Marry Schwenke for wire telecommunications
Ing Paul Lange for transmitter and receiver units
Ing Willi Schols for measuring and receiver units
and

* Estate Andreas for marine radio equipment

6. The following VP headquarters were in charge of development orders for VP equipment

For the NP. a. aff located on Schnellerstrasse, Berlin, with Lieutenant Colonel For the New Yor Giese (fnu), and First Lieutenant Bersum Balander For the New York of in Guben with Major Nowke (fnu) and Colonel For the New York of in Rostock with Matthes (fnu) and Boer.

These handquarters submitted their requests for development projects to the Ministry of Interior - KVP, Schnellerstrasse, Berlin, attention Major Belz (fnu).

- 7. At the Ministry, the plans prepared by the three VP service branches were coordinated and discussed with representatives of the MVs. The project plans to include the number of units required and their purposes were then transmitted to the Central Office for Research and Techniques (ZFT) of the State Flanning Commission. Ing Scheffler (fnu) was the only HV R-F-T representative at Schneller-strasse.
- pertment Ch. of George Charles and Assistant Otto (m) discussed the govelopment projects with Schwale, Lang. Schols and advise from NV R-F-T. he development orders were then registered as confidential projects by the Department for Confidential Material at the Ministry of Machine Construction. Through channels the reviewer in charge at HV R-F-T was informed of the cover or short designation of the project by which he could request the development order with the basic records.
- O. Information on the following development activities at the major enterprises of the NV R-F-T was obtained officially or through former colleagues in the Office of Economics at the Ministry of Interior:
- 10. Plagwitz Development Station of Funkwerk Leipzig

Ing lix (fnu) was managers by lange (fnu), a returned from the USSR, and Dr Loeve were chiefs in charge of development. Equipment developed at the station included:

a. Portable radio sets for two-way communication, cover designation Seclogengeract I to III. The development was started in 1951 and completed in 1952. Mass production of the set had started with an experimental series units at Funkwerk Leipzig. The 1955 plan included the production of 12,000 that is for the KVP, 1,000 units for the VFL and 1,000 units for the VPL and 1,000 units for the Table VP Sec. Model I had a power of 1 W. Development orders for the models II and III were received in 1952. These versions had a power of 2 W and 3 W

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	25 X 1

respectively supplied by a pedal operated generator that had been leveloped especially for this purpose. Four type II and III units were turned over to the KVP to be tested. The tube line-up was frequently modified. RV 12 P 2000 type tubes were not suitable because of their complicated power supply. Later experiments were made with the Gnom series and the 6 type series. The leaf springs of sectional rod autenass frequently suffered from broken coil steel.

- Since 1952. In May 1954, the Victorian working on this development project since 1952. In May 1954, the Victorian was experiments with the unit on the Baltic Sea. No information was expelleble on the results obtained in these experiments. At Plaguitz, experiments were conducted on a pond located in the Deutsche Post area. Difficulties were encountered with the development of the underwater microphone (because the crystals produced by Funkwerk Leipzig failed) and with seaworthy cables.
- c. Detector for land mines. The device developed by Dr Lange in 1952 for a KVP gagineer battalion was to operate by means of a loop searcher (Schleifensonde) and detent metal up to 1.5 m underground.
- 3. Talephone interceptor. The development project, based on a former wehrmacht device, was completed.
- e. DF unit with parabolic reflector. In 1953/1954 the instrument was allegedly tested on the wooden tower located in the Plagwitz plant area. The reflector had a diameter of 2.5 to 3 m and a range of about 30 km.

11. Colpanwork Radaberg

Gernary

Vieweger (fnu) was manager of Fachsenwerk Radeberg and Ing Gerhard Megla was chief of development.

- E. In late 1952, Ing Megla received an order from the Office of Economics of the Ministry of Interior to supplement the East German telecommunication system by a decimeter network. The project had the code name "Spinne". Ing Welhrauch (fmi), Leut 20, residing in Berlin Karolinenhof, was especially assigned by the Ministry of Interior to supervise the activities. The plans covered a circuit between Leipzig, Dresden and Chemnitz and towns on the Daltic Sea with radial connections to a central station on the Maggelberg hills east of Derlin. Leipzig Stahlbau (steel construction firm) was ordered to build 10 to 12 lowers, 20 to 40 m high, according to the local conditions of their future locations.
- b. By order of the VFL and VF-lee, log Negla was to develop an instrument for the identification friend or from to details were available.
- c. A research order for an alter type radiator and an ultra type voice radio was received from the VP-Ge. To further information was obtained.
- 1. In Media was ordered to check the possibilities for a reproduction of the Decca system. Re determined that the Decca system could not be reproduced, because the essential parts were not available.
- e. Other development activities included various link units for telephone communication and television relays lines. In 1972, Dr Megla planned to build link reflectors, 10 m² in size.

12. Funkwerk Dresden

Aurich (fnu) was plant manager and Kutzsche was chief of development. The development station, located in a former light bulb factory, reproduced Western equipment

CONTENENT OF A. AND SECTION ASSESSED OF THE

C-O-N-F-I-D-E-N-T-I-A-L



for radio cars and central transmitter and receiver stations. These instruments were installed on luggers of the value of in motor and tractor stations (MTS) of the SSD, the lattered latter and the Border Folice. In order to fill the large requirements for these instruments, 12 million eastmarks had allegely been alloted for the 1954 production.

- The development of an electronic computing machine by Ing Kutzsche was started in 1953. According to the August 1954 development reports, 30 percent of the project was completed. The instrument was equipped with Western tubes only. It was remembered that a shipment of 60° surface with had arrived. Printing Pulses hief of the Research Department at the Walley Transferor for experimental projects. Telegraphical and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Research Department at the Walley Transferor for experimental projects and the Computation of the Computation of
- b. Kutzsche (fmu) was in charge of a secret development project for a pulse code modulation system. In September 1954, a First Lieutenant of the Ministry of Interior, Harry Schenke, who was a specialist for wire communications at the HV R-F-T, Schlering (fmu), who was a representative of the Ministry of Machine Construction, Department for Vacuum Techniques, and Rothenburg (fmu), who was a technologist frequently met to discuss difficulties encountered with the tubes.

13. Junkwerk Zittau Olbersdorf

began
In 1952, Ing Tiegler (fnu)/the development of the continuous perministure voice radic set. After an experimental series had been built, the production was discontinued because of difficulties with the power unit. The instrument was to be carried on the belt, similar to a cartridge peach and had a range of 3 km. A flat battefy with disc shaped elements was used as a power unit. The time of operation was only 20 to 25 minutes. Further difficulties occurred with the plastic casing which broke under stress. A metal casing was tested and found electrically unsuited. A whip type antenna frequently suffered from broken coil steel. It was thought that an American model would be obtained.

1. Funkwerk Dabendorf

Ing Darlich (fmu) was chief of the plant. In 1952 Funkwerk Debenders started in cooperation with Funkwerk Koepenick the development of an all-wave receiver, a very low frequency receiver and a distress call station.

15. Fernmeldewerk Leipzig

Doethel (fng) was manager of the Leipzig Telecommunication Flant and Hubel (fng) was chief of development. Between 1951 and June 1953, the plant developed a combined corambling device and a corrector for telephone lines. The development project and been ordered by the KVF and was carried out under the supervision of Hubel Twelve sets were produced. A sound generator produced a standard pitch A which jammes the call and filtered out again at the receiver.

16. Condenser Plant in Gera

Prime Schuls was chief of research and Haberstroh (fnu) who had previously worked at the Maistry of Interior was technical manager. The plant worked on the development of high frequency cores made of iron powder.

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17.	Mormolorf Coramics Plant	
	among other products, the plant produced Maniperm rings for Louispeakers.	
18.	Funkwerk Erfurt	
	Calibrating transmitters of the types LR 40% and LR 45% were being developed under the control of Meubauer (fmm), chief of development.	
	Tunkwerk Koepenick	
•	The late plant manager and later Scinging chief of the development stations. Only little information small be obtained on the activities of the	
	Leukhaly Roomstoff Am Alle Lam Latinerroom and Am Act Inch officer of	
: +	gentact with their customers. For the same reason, very little information could be obtained on the development of a collision preventing levice. A	
	production for the VPL was also being discussed. It was learned that a newly	
	developed instrument failed during the experiments at Sasanitz in May and June 105%. As a result of defective condensers, the experimental model burned out	
	completely and the SSD started investigations in this case. No information could be obtained on the origin and layout of reference instrument.	
∙ن.	In early 1952 or 1953, an experimental model of a stabilized of bloom in the	
	Register Office in Marlshorst. The model was rejected because it did not	
	balance all motions of the bort. Difficulties affected the transmission of the balancing revenents from the gree control, because chain drive was used instead	
	of shaft drive. The platform measured about 4 x 5 m. The experiments were allegedly cancelled.	
~1.	Auton, tource's collections, there were minors of rocket launching bases. No	
	information was obtained on the type and location of these alleged launching stations.	
		25 X 1
1.	Comment. For table of organization and personnel of HV R-F-T, see Annex	
<u></u>	Department of Research and Development, see Annex 2. No information was obtained	25 X 1
	on the activities of Sections 4. 7 and 8.	25X1
4, 3.	Communic Throughout this report, the various Velkspoliack, sir) communicates mustianed compressed roughly as follows: MVP = Army VPL = Atm; VP See	-
	Navy.	
3. 4.	Comment: Possibly identical with Dipl. Ing. Franz Hubl, a carrier frequency specialist.	25X1
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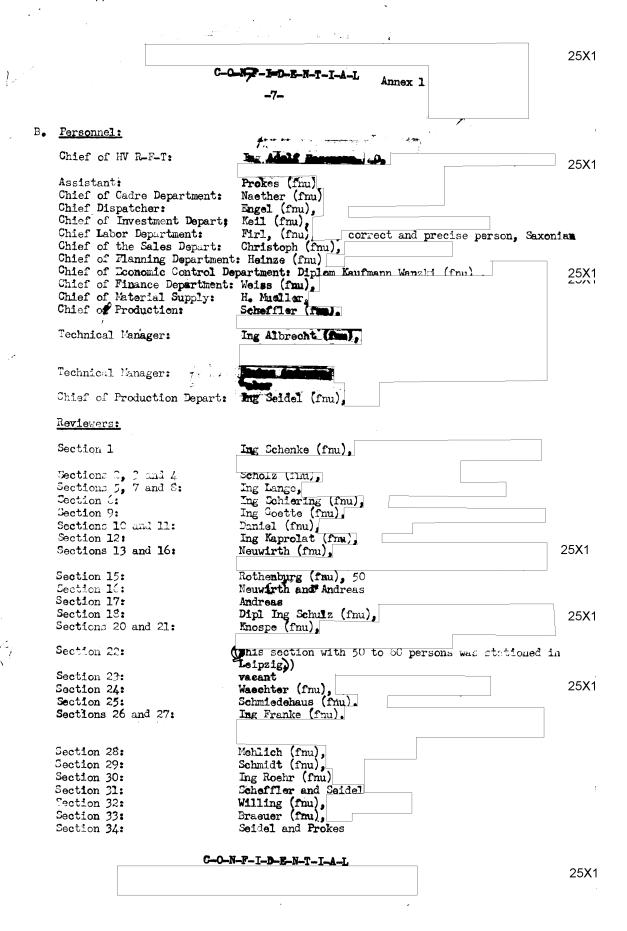
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Table of Organization and Personnel Plan of HV R-F-T , Status October 1954

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partment of Material Supply	15	
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ection 2: acoustics		
ection 3: Broadcast and television		
ection 4: measuring instruments		
ection 5: transmitters		
ection 6: vacuum techniques		
ection 7: commercial developments		
ection 3: ship equipment		
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ections 10 to 18):		
ection 10: wire communications		
ection 11: acoustics		
ection 12: broadcast and television		
ection 13: measuring instruments ection 14: transmitters		
ection 15: vacuum techniques		
ection 16: commercial developments		
ection 17: ship equipment		
ection 18: components	-	
lanking and Development Department	- 4	2
ections 19 to 24):		
ection 19: planning and development		
ection 20: scientific coordination	ms	
ection 21: patents and invertion problemention 22: standardization		
ection 23: conversion of machine		
ection 24: quality control		
reduction Control Despriment	1	1
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reduction Department	11	2
ections 25 to 34):		
Section 25: wire communications		
Section 26: Acoustics		
Section 27: broadcast and television		
ection 28: measuring instruments		
ection 2 9: transmitters Section 30: vacuum techniques		
Dection 30: Vacuum techniques Dection 31: Commercial decelerments		
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* We received. There is no indication of the difference in the two commences.



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Activities of the Sections 1, 2, 3, 5, 6, and 9 of the Department for Research

and Development

Section 1. Wire Communication Equipments

Hand generator for field telephones: The project had been ordered by the VP Sea and the VPL in 1951 and was completed in March 1954. Bartsch (fnu) of the Fernmeldewerk Arnstadt was in charge of the development. The production of the unit was started at Fernmeldewerk Nordhausen. Befause of difficulties encountered with the crank unit and the bell, a reinforcement of the shaft from 3mm to 6mm were required. The generator was smaller than the former Wehrmacht set, and other switchboards to large set. The unit could be exceed with KVP Sea and the was carried out was equipped with an additional receiver and a plastic casing. No production

was carried out by Fernand over Leiptig. No information was obtained on any difficulties involved.

Mobile telephone exchange installed in a Horch 30 type truck. The station was equipped with a switchboard with 130 drep terminals, a decimeter transmitter and receiver, and a portable performed tape recorder with Morse key. The development order was received from the VP Sea and the VPL. Dispatcher Sets. No information available.

Section 2. Acoustics:

Electric megaphone. The development order, given to Funkwerk Dresden by the VP Sea in 1952, was postponed to 1954.
Cabin pressure loudspeaker for ships. In October 1954, the set was still being developed by the Kutzsehe (fnu) and Demich (fnu) at Funkwerk Dresden. The trumpet shaped loudspeaker was equipped with airtight systems and a folded membrane in order to effect an increased acoustics radiation. The set was tested in ostock with satisfactory results.

Magnetor he instrument designated a portable set to be combined with record to the development of the development of the kVP, VP Sea, VPL, SSD, the for the KVP, VP Sea, VPL, SSD, the discount operated with tape instead of wire. The lack of the parts seless ball bearings hampered the production of the control the developed by Schmidt of the State Broadcasting Commission, Nalepastrasse, Berlin. As a result of poor designing, rejects had caused the production plant a deficit of 2.3 million eastmarks. Loud Speaker. By government order, magnetic field rings of Hescho-Maniperm with a field strength of 600 Gauss were tested for loud speakers. Expert with Western tubes were made with hearing aids and an electric organ.

or project was the development of rects equipped with 17" picture tubes. Previously 12" had been used. Sachsenwerk Radeberg was in charge of the development project for which it consulted a development expert from the Sonata Plant as technical adviser. In mid-1954, hours from Sachsenwerk Redeberg, Inner (far) from From Sachsonverk Redeberg, innes (Mul. Com adviser. In mid-1954, the HV R-F-T, the development and the adviser from the Sonata Plant had a conference. Werk

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Section 5. Transm	itters:		
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opment of the which aliminates to consider the constant of the	of component parts was also far in turn were not designed for the the most serious bottlenecks by those models were initiated produced by Sommerda Branch Flochlitz. he condenser plates were they were rolled to tolerant plant. The mint had difficulties of the sheet metal was poor. The roll-type condensers. Aluminum	western models were. The rotating plate ant of the Koelleda term shipped to the lice measurement and see as a result of worse lack of foil mate:	one, in re used, Plant and Berlin 25X subsequently rn out rollers rials caused 25X

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C-O-N-F-I-D-E-N-F-I-A-L Annex 2
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nzistors were being developed by the Carl von Ossietal Flant clowid Flant) in Teltow under the supervision of Delichias Fully chief the research department. Dr Falter had demonstrated at the business at tape a tape order controlled by transistors and a small series of transistors for the cuting machine developed by Ing Kutasche. The development was hampered by lack of funds.

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